

CLAIMS

What is claimed is:

1. An optical disc drive for an optical disc comprising:
a driving unit including a spindle motor to rotate the optical disc, an optical pickup to access the optical disc, and a connection board connected to a computer; and
a control board to control the driving unit, which is installed at an interface device of the computer, separate from the driving unit, and connected to the connection board.
2. The optical disc drive as claimed in claim 1, wherein the interface device is a PCMCIA slot.
3. The optical disc drive as in claim 1, wherein the interface device is a USB port.
4. An optical disc drive system for an optical disc comprising:
a driving unit having a spindle motor to rotate the optical disc, an optical pickup to read/write to the optical disc, a drive motor to move the optical pickup across a surface of the optical disc, and a connector to connect to a computer; and
a controller to control the driving unit having an interface to connect to the computer, wherein the controller is located remotely from the driving unit.
5. The system as in claim 4, wherein the driving unit is an external device that connects to the computer by a cable.
6. The system as in claim 4, wherein the driving unit is an internal device that fits into a peripheral slot of the computer.
7. The system as in claim 4, wherein the controller is connected to the driving unit by a cable.
8. The system as in claim 4, wherein the controller is an external device that connects to the computer by a cable connected to an interface port.

9. The system as in claim 4, wherein the controller is connected to the driving unit by a bus in the computer.
10. The system as in claim 4, wherein the controller interface is a PCMCIA interface.
11. The system as in claim 4, wherein the controller interface is a USB interface.
12. An optical disc drive system for an optical disc comprising:
a driving unit having a spindle motor to rotate the optical disc, an optical pickup to read/write to the optical disc, a drive motor to move the optical pickup across a surface of the optical disc, and a connector, wherein the driving unit fits in a peripheral slot of a computer; and
a controller to control the driving unit having an interface to connect to the computer, wherein the controller is located remotely from the driving unit.
13. The system as in claim 13, wherein the controller connects to the computer via a standardized interface slot.
14. The system as in claim 13, wherein the connector of the driving unit does not perform control functions.
15. The system as in claim 13, wherein the controller can increase in size without affecting the size of the driving unit.
16. The system as in claim 13, wherein the thickness of the driving unit is controlled by the spindle motor, the optical pickup and the driving motor, wherein reductions in size of the spindle motor, the optical pickup and the driving motor allow the driving unit size to be reduced.
17. The system as in claim 13, wherein the controller is connected to the computer via a PCMCIA slot.

18. The system as in claim 17, wherein a portion of the controller is inserted into the PCMCIA slot and a portion of the controller is outside the slot, wherein the portion of the controller that is outside the slot may be sized to accommodate circuitry to control the driving unit.